

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04L25/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHEDMinimum documentation searched (classification system followed by classification symbols)
IPC 7 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 479 447 A (CIOFFI JOHN M ET AL) 26 December 1995 (1995-12-26) column 2, line 62 - column 3, line 9 column 5, line 31 - line 36 column 5, line 54 - line 60 column 7, line 11 - line 20 column 8, line 36 - line 40 column 11, line 49 - column 12, line 6 column 12, line 26 - line 44; figures 11,14 --- -/--	1,5,6,10



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

30 October 2003

Date of mailing of the international search report

13/11/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Papantoniou, A

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>HYUNSOO CHEON ET AL: "Adaptive multicarrier system with reduced feedback information in wideband radio channels" VEHICULAR TECHNOLOGY CONFERENCE, 1999. VTC 1999 - FALL. IEEE VTS 50TH AMSTERDAM, NETHERLANDS 19-22 SEPT. 1999, PISCATAWAY, NJ, USA, IEEE, US, 19 September 1999 (1999-09-19), pages 2880-2884, XP010353406 ISBN: 0-7803-5435-4 page 2880, right-hand column, line 7 -page 2881, left-hand column, line 26 page 2881, right-hand column, line 30 - line 31 figure 1</p>	1,6
A	<p>OLSON H ET AL: "Differential PSK detector ASIC design for direct sequence spread spectrum radio" ASIC CONFERENCE AND EXHIBIT, 1996. PROCEEDINGS., NINTH ANNUAL IEEE INTERNATIONAL ROCHESTER, NY, USA 23-27 SEPT. 1996, NEW YORK, NY, USA, IEEE, US, 23 September 1996 (1996-09-23), pages 97-101, XP010198736 ISBN: 0-7803-3302-0 page 99, left-hand column, paragraph 5 page 99, right-hand column, paragraph 2; figure 7</p>	1,6
A	<p>US 3 979 555 A (OPITTEK EUGENE W ET AL) 7 September 1976 (1976-09-07) column 2, line 51 - line 59 column 4, line 57 - line 65 column 5, line 2 - line 9 column 6, line 41 - line 54 column 6, line 66 -column 7, line 2 column 7, line 11 - line 36; figures 5,6</p>	1,6

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP 03/07119

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5479447	A	26-12-1995	NONE	
US 3979555	A	07-09-1976	NONE	